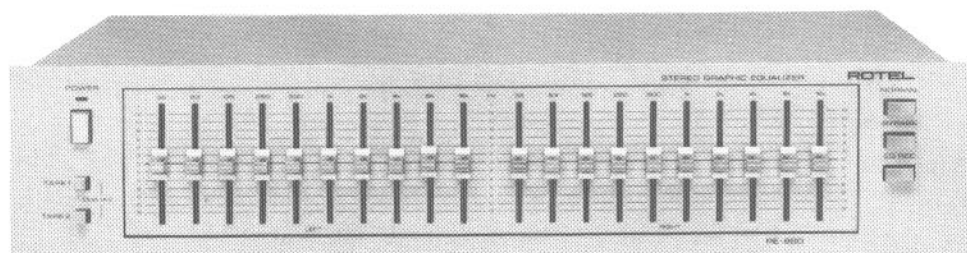


# owner's manual



Quality. Uncompromised.

# ROTEL RE-860

STEREO GRAPHIC EQUALIZER

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**WARNING**  
TO PREVENT FIRE OR SHOCK HAZARD,  
DO NOT EXPOSE THIS APPLIANCE TO  
RAIN OR MOISTURE

Write your SERIAL NUMBER here.

The number is located near the name  
plate on the rear panel.



# ENGLISH

## STEREO GRAPHIC EQUALIZER RE-860

### INTRODUCTION

We at Rotel want to thank you for purchasing our audio product.

Rotel audio products are designed to use the latest electronic technology, and they incorporate our long experience as a specialist manufacturer of audio equipment. We are confident that you will find satisfaction in the high quality sound and top performance, and that you will find pleasure in the functional beauty achieved through human-engineering concept. Before starting operation, please read this instruction manual thoroughly and acquaint yourself with the proper mode of using the unit and all its connections.

We hope you will enjoy top-notch performance for many years to come.

### INSTALLATION

Be sure to place the unit in a level and flat place where it is free from humidity, vibration, high temperature and not exposed to direct sunlight. Be careful not to place the unit in a highly enclosed place such as near a wall or on a bookshelf. A poor ventilation will cause undesirable effects to the unit.

### POWER SUPPLY CONNECTION

For power the unit requires the normal house electrical current (AC). You may simply plug the unit into a wall outlet, or into your amplifier's (or receiver's) convenience AC outlet.

**CAUTION:** Do not apply power without first making sure the proper connections are completed. If you live in U.K. and your unit comes with 2-core cord without a plug, be sure to read the exclusive caution for U.K.

#### EXCLUSIVE NOTE FOR U.K.

If your unit comes with a 2-core cable without a plug, make certain live and neutral leads are connected to the proper terminals. Check that the terminals are screwed down firmly and no loose strands of wire are present.

**IMPORTANT:** The wires in this mains lead are coloured in accordance with the following code:

BLUE: NEUTRAL

BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLUE or BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured BROWN or RED.

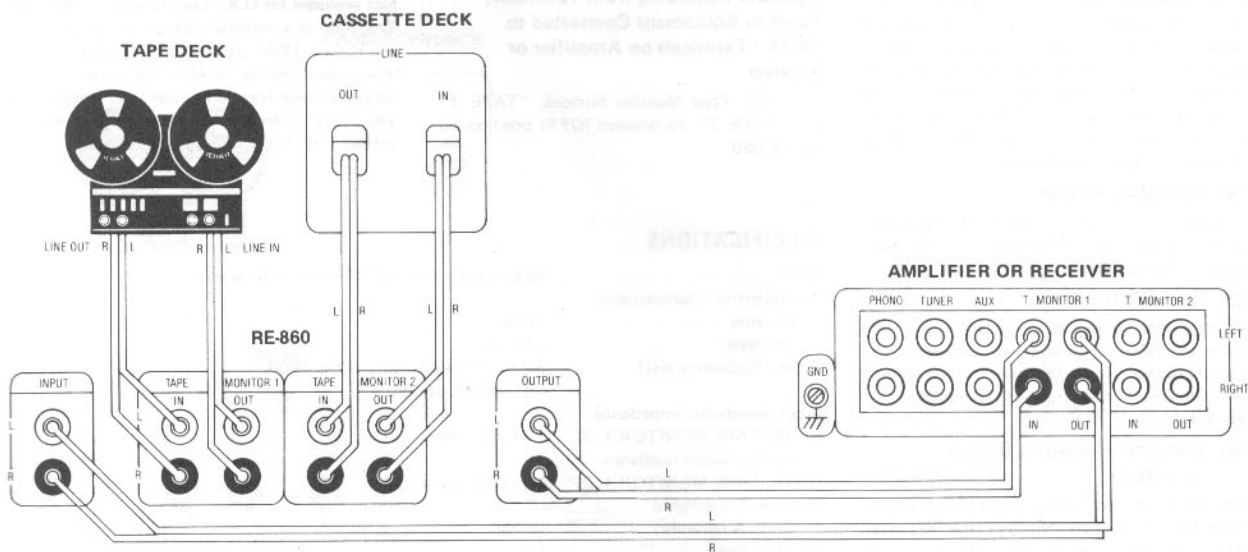
### CONNECTING COMPONENTS

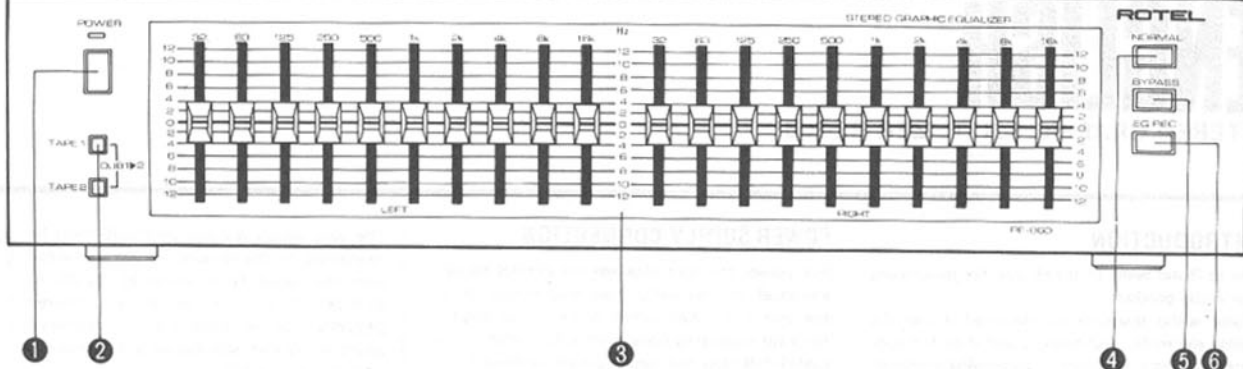
Using the accompanying RCA pin cords, connect INPUT and OUTPUT terminals on the rear of the RE-860 to the TAPE MONITOR terminals on your amplifier or receiver. (If your amplifier or receiver has two sets of TAPE MONITOR terminals, "1" and "2", use TAPE MONITOR "1" terminals.)

To hook up tape deck, connect TAPE MONITOR terminals on the RE-860 to the LINE IN and OUT terminals on the tape deck.

In making the above connections, be sure to carry out correct left (L) and right (R) connections; RCA pin cords with white plugs are used for left channel connections, and cords with red plugs are for right channel connections.

See the illustration for properly completed connections.





## SWITCHES AND CONTROLS

### (1) Power Button

This button turns on the unit. The LED indicator above it will glow when the power is on. Press the button a second time to turn off the power.

### (2) Tape Monitor Buttons

Depress button labeled "TAPE 1" when you wish to play back tape deck connected to "TAPE MONITOR 1" terminals on the rear of the RE-860. Depress button labeled "TAPE 2" when you wish to play back tape deck connected to "TAPE MONITOR 2" terminals. Setting both "TAPE 1" and "TAPE 2" buttons in depressed position will route signal from "TAPE 1" deck to "TAPE 2" deck, permitting you to perform dubbing (tape copying).

### (3) Frequency Controls

The RE-860 divides the audio frequency range into 10 band sections for left and right channels respectively. Each section is provided with a slider control to adjust the response at center of the band. From mid-position (0dB), you can boost the response to +12dB by moving the control upwards, or attenuate it to -12dB by moving the control downwards.

### (4) NORMAL Button

Depress this button to reproduce signal sent from the amplifier or receiver, or tape deck, through the equalizer.

### (5) BYPASS Button

Depress this button to reproduce signal sent from amplifier or receiver, or tape deck, bypassing the equalizer. Also use this button when dubbing (tape copying), also bypassing the equalizer.

### (6) Equalizer Recording Button (EQ REC)

Depress this button when recording signal from amplifier or receiver through the equalizer. Also use this button when dubbing (tape copying) through the equalizer.

## OPERATION

- Before commencing operation, check to see that all connections are correctly made.
- Make sure that tape-monitor switch (or tape-monitor "1" switch) on your amplifier or receiver is set to ON.
- Turn on the RE-860 and all necessary components.

### Equalizer Listening from Turntable, Tuner or Equipment Connected to "AUX" Terminals on Amplifier or Receiver

1. Set Tape Monitor buttons, TAPE 1 and "TAPE 2", to released (OFF) position, on the RE-860.
2. Depress NORMAL button on the RE-860.
3. Start play.
4. Set frequency controls as desired.

### Tape Deck Playback through Equalizer

1. Depress either "TAPE 1" or "TAPE 2" button on the RE-860 according to the tape deck you are going to use for playback.
2. Depress NORMAL button on the RE-860.
3. Start playback.
4. Set the frequency controls as desired.

### Equalizer Recording from Turntable, Tuner or Equipment Connected to "AUX" Terminals on Amplifier or Receiver

1. Set Tape Monitor buttons, "TAPE 1" and "TAPE 2", to released (OFF) position on the RE-860.

2. Depress EQ REC button on the RE-860.
3. Play desired program source and put the tape deck into recording mode.
4. Set the frequency controls as desired.

### Equalizer Dubbing (Tape Copying) from TAPE 1 to TAPE 2

1. Depress both Tape Monitor buttons, "TAPE 1" and "TAPE 2" on the RE-860.
2. Depress EQ REC button on the RE-860.
3. Put the "TAPE 1" deck in playback mode, and the "TAPE 2" deck in recording mode.
4. Set frequency controls as desired.

## VOLTAGE SELECTION

**Not available for U.K., Canada and Scandinavia**  
The unit is a variable voltage equipment that can run on 120V, 220V or 240V power supply. Your unit should already be preset at the proper voltage for use in your area. However, if you move to an area where the power supply voltage is different, consult your dealer.

## SPECIFICATIONS

Band . . . . .	10 bands per channel (10 center frequencies)
Band Control Characteristic:	
Increase . . . . .	+12 dB
Decrease . . . . .	-12 dB
Center Frequency (Hz) . . . . .	.32, 63, 125, 250, 500, 1000, 2000, 4000, 8000, 16000
Input Sensitivity/Impedance (LINE, TAPE MONITOR 1, 2) . . . . .	.10V/50 kohms
Output Voltage/Impedance (LINE, TAPE MONITOR 1, 2) . . . . .	.10V/600 ohms
Signal-to-Noise Ratio (IHF, A network) . . . . .	108 dB
Residual Noise . . . . .	3.9 $\mu$ V
Frequency Response . . . . .	.15 to 45,000 Hz, +0 dB, -1.0 dB
Total Harmonic Distortion . . . . .	.0009% (20-20,000 Hz, 1.0V output)
Power Requirement . . . . .	.120V/60 Hz, 220V/50 Hz, 240V/50 Hz, or 120, 220, 240V/50-60 Hz (switchable, depending on destinations)
Power Consumption . . . . .	.8 watts
Dimensions (overall) . . . . .	.430 (W) x 98 (H) x 290 (D) mm 16-15/16" x 3-27/32" x 11-13/32"
Weight (net) . . . . .	4.3 kg/9.46 lbs.

- Specifications and design subject to possible modifications without notice.

**QUICK REFERENCE CHART  
FOR OPERATION**

		RE-860				
		NORMAL Button	BYPASS Button	EQ REC Button	Tape Monitor Button 1	Tape Monitor Button 2
Listening to Program Source	EQ IN	<input type="checkbox"/> ON	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF
	EQ OUT	<input type="checkbox"/> OFF	<input type="checkbox"/> ON	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF
Listening to Tape Deck 1	EQ IN	<input type="checkbox"/> ON	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> ON	<input type="checkbox"/> OFF
	EQ OUT	<input type="checkbox"/> OFF	<input type="checkbox"/> ON	<input type="checkbox"/> OFF	<input type="checkbox"/> ON	<input type="checkbox"/> OFF
Listening to Tape Deck 2	EQ IN	<input type="checkbox"/> ON	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> ON
	EQ OUT	<input type="checkbox"/> OFF	<input type="checkbox"/> ON	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> ON
Recording Program Source onto Tape Deck 1 and/or 2	EQ IN*1	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> ON	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF
	EQ OUT*2	<input type="checkbox"/> OFF	<input type="checkbox"/> ON	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF
Dubbing from Tape Deck 1 onto Tape Deck 2	EQ IN*3	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> ON	<input type="checkbox"/> ON	<input type="checkbox"/> ON
	EQ OUT*4	<input type="checkbox"/> OFF	<input type="checkbox"/> ON	<input type="checkbox"/> OFF	<input type="checkbox"/> ON	<input type="checkbox"/> ON

EQ IN : indicates route of input signal through the equalizer.  
EQ OUT : indicates route of input signal bypassing the equalizer.

ing. Depress NORMAL button to listen to program source through the equalizer while recording.

- \*1. While recording, program source will be reproduced bypassing the equalizer.
- \*2. Position of NORMAL or BYPASS button has no effect on record-

- \*3. While dubbing, sound will be reproduced through the equalizer.
- \*4. Position of NORMAL or BYPASS button has no effect on dubbing. Depress NORMAL button to listen to sound through the equalizer while dubbing.

**FREQUENCY RANGES OF MUSICAL INSTRUMENTS AND VOICE PARTS**

